**Honeywell**

# Universal Link Cable
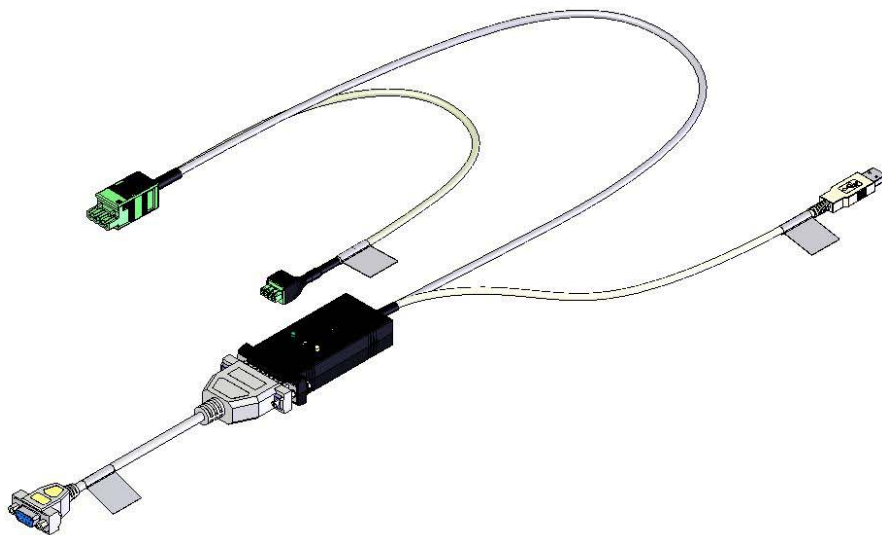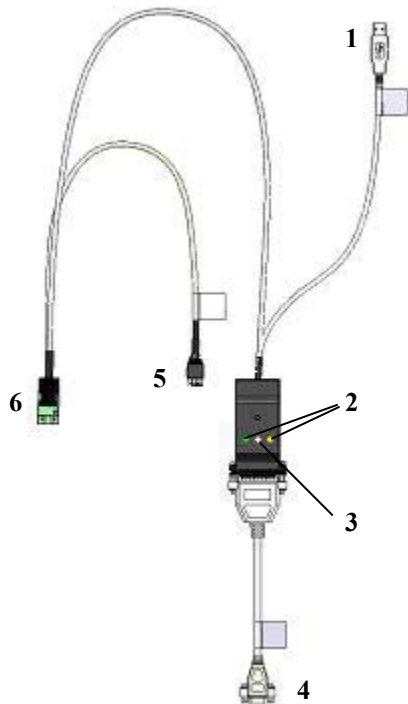# User Guide

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**Honeywell**

34-XY-25-12
Rev 1
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# Table of Contents

# 1.   About the Universal Link Cable

The Honeywell Universal Link Cable is used to connect a Base Radio to a PC (personal computer) running the Wireless Management Toolkit software. The Universal Link Cable can be attached to either a USB port or a RS-232 port on the PC. In addition, it can be plugged into the power/communication port of the Honeywell DIN rail mounted Quad Analog Output Module, Discrete Output Module or Quad Analog\ Discrete Output Module.



[1]   **USB Connector** is plugged into the USB port on a PC.

[2]   **Connection lights**

- **Green** light blinks slowly when there is power and quickly to indicate a USB connection.

- **Yellow light** blinks when there is traffic detected on the RS-485 port.

[3]   **Reset button** is used to reset the Universal Link Cable.

[4]   **RS-232 Connector** is plugged into the RS-232 port on a PC.

[5]   **RS-485 Connector** is plugged into the RS-485 port on a Base Radio.

[6]   **2$^{nd}$ 485 Connector** can be plugged into the power/communication port of the DIN rail mounted Quad-AO or Discrete Output Modules.

**WI Universal Link Cable**
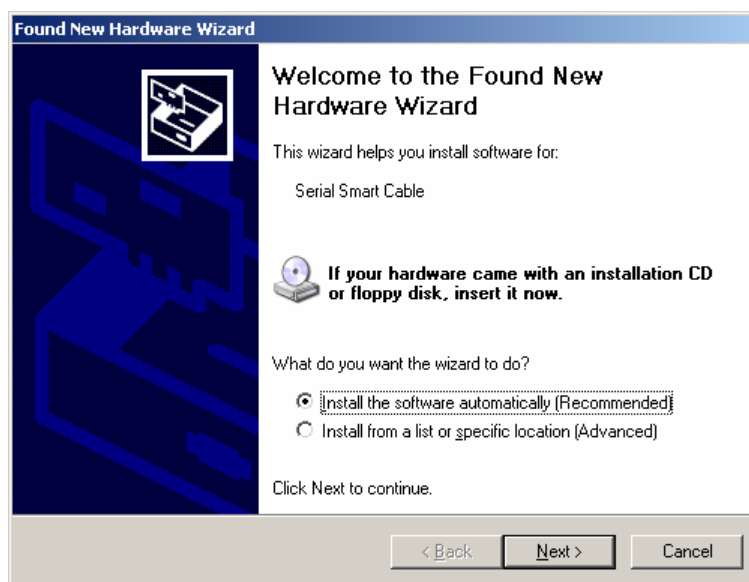
# 2.   Setting up a RS-232 Port

This section will show you how to attach the Universal Link Cable to a RS-232 port and how to configure the port settings on your PC. For additional information about the Base Radio see the Base Radio User Manual. For information about Honeywell WMT, see the Honeywell WMT User Manual.

## 2.1.   Attaching the Universal Link Cable

[1]   Turn on the computer.

[2]   Turn on the Base Radio.

[3]   Insert the RS-485 plug into the 485 slot (the left slot) on the Base Radio.

[4]   Insert the RS-232 plug into the RS-232 port on the PC.

*Note: Do NOT use both the USB and RS-232 plugs at the same time.*

If this is the first time that you attach the Universal Link Cable, the following window will appear. Click **Next** to allow it to install the software automatically. When it has completed installing the software, click **Finish** to continue.



[5]   Start Honeywell WMT from the PC. If Honeywell WMT is already running, you do not have to restart it.

Honeywell WMT opens with the Connection view showing.

[6]   Type your User name and Password and click **Connect**.

The server should be automatically started. Also the RF icon, a blue square with a red 'RF', appears in the system tray (in the lower right corner of the screen next to the clock). If data from the Base Radio appears in the window, setup is complete. If no data appears, then continue to the next section to check the port settings.
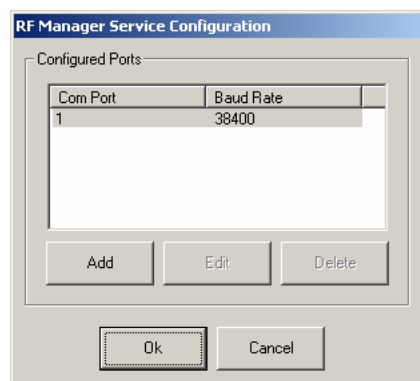
# 2. Setting up a RS-232 Port (continued)

## 2.2. Configuring Port Settings

Com port 1 is the default port. If you are using Com port 1, you probably do not need to reconfigure the ports.

[1]     Make sure that the RF Server running. If the RF icon is in the system tray, the server is running.

[2]     With the right mouse button click the RF icon in the system tray. Click **Options** from the Right Mouse Button menu.

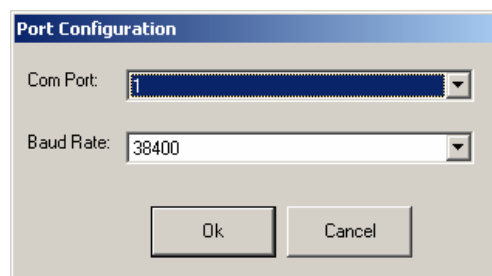The RF Manager Service Configuration box opens.



**RF Manager Service Configuration box**

[3]     Check the Configured Ports list. This most likely shows Com Port 1. If you are using a different port that does not appear in the list, either edit the existing port or add a new port.

[4]     To edit an existing port, select the port from the Configured Port list and click **Edit**.

*Note: You can also add additional ports. To add a port, click **Add**.*

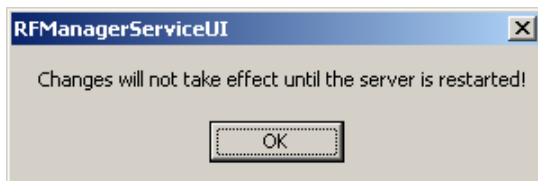The Port Configuration box opens.



**Port Configuration box**

[5]     Select your desired port from the Com Port list.

*Note: The Baud Rate will NOT be changed.*

[6]     Click **Ok** on the Port Configuration box.

# 2.   Setting up a RS-232 Port (continued)

[7]     Click **Ok** on the RF Manager Service Configuration box. The following
message appears:



[8]     Click **Ok** to acknowledge that 'Changes will not take effect until the
server is restarted.'

[9]     To restart the server, right-click the RF icon in the system tray and click
**Restart Server**.

[10]    Disconnect and reconnect Honeywell WMT. To disconnect Honeywell
WMT, go to the Honeywell WMT **File** menu and click **Disconnect**.

Honeywell WMT should be showing the Connection view with the word
'Disconnected' in the upper right corner.

*Note: Honeywell WMT may also be disconnected by pressing Disconnect on the
Connection page in Honeywell WMT.*

[11]     To connect Honeywell WMT, press Connect on the Connection screen in
Honeywell WMT.

*Note: Going to the Honeywell WMT File menu and clicking Connect will also
connect Honeywell WMT.*

Honeywell WMT should be connected and data from the Base Radio
should appear. If not, check the *Trouble Shooting section*.

# 3.   Setting up a USB Port

This section will show you how to attach the Universal Link Cable to a USB port on your PC and how to configure the port settings on your PC. For additional information about the Base Radio see the Base Radio User Manual. For information about Honeywell WMT, see the Honeywell WMT User Manual.

## 3.1.   Attaching the Universal Link Cable

[1]     Turn on the computer.

[2]     Turn on the Base Radio.

[3]     Insert the RS-485 plug into the 485 slot (the left slot) on the Base Radio.

[4]     Insert the USB plug into the USB port on the PC.

*Note: Do NOT use both the USB and RS-232 plugs at the same time.*

If this is the first time that you attach the Universal Link Cable, the following window will appear. Click **Next** to allow it to install the software automatically. When it has completed installing the software, click **Finish** to continue.



[5]     Start Honeywell WMT from the PC. If Honeywell WMT is already running, you do not have to restart it.

Honeywell WMT opens with the Connection view showing.

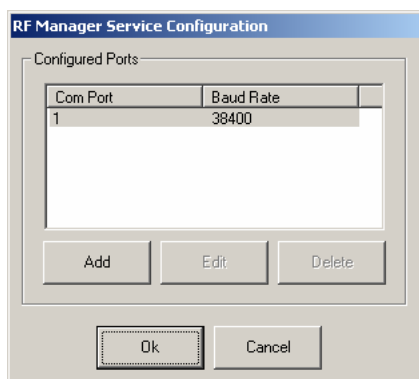[6]     Type your User name and Password and click **Connect**.

The server should be automatically started. Also the RF icon, a blue square with a red 'RF', appears in the system tray (in the lower right corner of the screen next to the clock). If data from the Base Radio appears in the window, setup is complete. If no data appears, then continue to the next section to check the port settings.

# 3.   Setting up a USB Port (continued)

## 3.2.   Configuring Port Settings

[1]     Make sure that the RF Server running. If the RF icon is in the system tray, the server is running.

[2]     With the right mouse button click the RF icon in the system tray. Click **Options** from the Right Mouse Button menu.

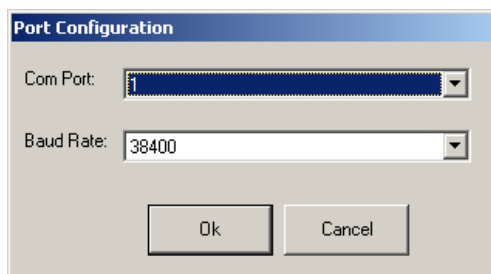The RF Manager Service Configuration box opens.



**RF Manager Service Configuration box**

[3]     Check the Configured Ports list. This most likely shows Com Port 1. You can either edit the existing port or add a new port.

[4]     To edit an existing port, select the port from the Configured Port list and click **Edit**.

*Note: You can also add additional ports. To add a port, click Add.*
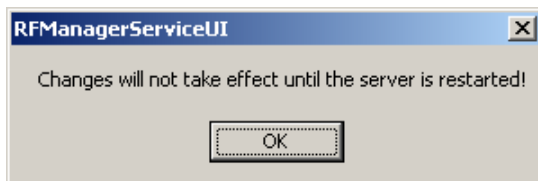
The Port Configuration box opens.



**Port Configuration box**

[5]     Select USB from the Com Port list. USB is at the bottom of the list.

*Note: The Baud Rate will NOT be changed.*

[6]     Click **Ok** on the Port Configuration box.

# 3.    Setting up a USB Port (continued)

[7]     Click **Ok** on the RF Manager Service Configuration box. The following message appears:



[8]     Click **Ok** to acknowledge that 'Changes will not take effect until the server is restarted.'

[9]     To restart the server, right-click the RF icon in the system tray and click **Restart Server**.

[10]    Disconnect and reconnect Honeywell WMT. To disconnect Honeywell WMT, go to the Honeywell WMT **File** menu and click **Disconnect**.

Honeywell WMT should be showing the Connection page with the word 'Disconnected' in the upper right corner.

*Note: Honeywell WMT may also be disconnected by pressing Disconnect on the Connection page in Honeywell WMT.*

[11]     To connect Honeywell WMT, press Connect on the Connection screen in Honeywell WMT.

*Note: Going to the Honeywell WMT File menu and clicking Connect will also connect Honeywell WMT.*

Honeywell WMT should be connected and data from the Base Radio should appear. If not, check the *Trouble Shooting section*.

# 4.   Troubleshooting

If the Base Radio is not communicating with the PC, check the following:

[1]     Check the cables. Make sure that all of the connectors are firmly pressed in.

[2]     Is the Base Radio plugged in and turned on? Does it have a reading on an LCD?

[3]     Check the lights on the Universal Link Cable. The green light blinks slowly when there is power and quickly to indicate a USB connection. The yellow light blinks when there is traffic detected on the RS-485 port.

[4]     Is the correct port configured? See the 'Configuring Port Settings' section to check this.

[5]     Is Honeywell WMT version 1.58 or higher? To check the Honeywell WMT version number, go to the Honeywell WMT **Help** menu and click **About** to check the version number.

[6]     On some computers it may take time for the Honeywell WMT program to find the Base Radios, particularly through the USB port.  If you get a "No Base Radios found" message or you do not see the WI Output Modules right away, wait about 30 seconds and the Honeywell WMT should find the base radios.

[7]     Use Discover Devices in Honeywell WMT for it to find everything, especially if any changes have been made. Go to the Honeywell WMT **File** menu and click **Discover Devices**.

[8]     Reboot the Universal Link Cable for it to find everything, particularly if you are changing from the Universal Link Cable RS-232 output to the Universal Link Cable USB output. You can reboot the Universal Link Cable by pressing the white Reset Button on the cable body or by unplugging it from the Base Radio or WI Output module.

# 5.   Technical Specifications

| Software | |
|---|---|
| Operating System | Windows 2000, XP |
| USB Interface | USB1.1 and USB2.0 |
| Honeywell WMT version | 1.58 or higher |
| | |
| **Electrical** | |
| Power Requirements | 24 Volts DC, Powered from Base Radio or Din Rail Output Module |
| Supply Current | 20mA |
| Isolation | |
| | |
| **Environmental** | |
| Operating Temperature | $0^{o}$C to $50^{o}$C ($32^{o}$F to $122^{o}$F) |
| Storage Temperature | $-20^{o}$C to $50^{o}$C ($-4^{o}$F to $122^{o}$F) |
| Storage Humidity | 0% to 90% Relative Humidity |
| | |
| **Physical Dimension** | |
| Enclosure | 2.1 x 4.1 x 1 in (53.3 x 104.1 x 25.4 mm) |
| USB Cable | 12" cable with a USB type A connector |
| RS232 | 12" cable with a DB9 Female connector |
| RS484 | 3" with Phoenix 1754481 and 1939934 |

**Honeywell**